

#8  
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1646

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/647,544

DATE: 01/22/2002

TIME: 14:51:51

Input Set : A:\003300-685.ST25.txt

Output Set: N:\CRF3\01222002\I647544.raw

RS

4 <110> APPLICANT: Lundgren-Akerlund, Evy  
 6 <120> TITLE OF INVENTION: Integrin Heterodimer and a Subunit Thereof  
 8 <130> FILE REFERENCE: 003300-685  
 10 <140> CURRENT APPLICATION NUMBER: US 09/647,544  
 11 <141> CURRENT FILING DATE: 2000-10-26  
 13 <150> PRIOR APPLICATION NUMBER: PCT/SE99/00544  
 14 <151> PRIOR FILING DATE: 1999-03-31  
 16 <150> PRIOR APPLICATION NUMBER: SE 9801164-6  
 17 <151> PRIOR FILING DATE: 1998-04-02  
 19 <150> PRIOR APPLICATION NUMBER: SE 9900319.6  
 20 <151> PRIOR FILING DATE: 1999-01-28  
 22 <160> NUMBER OF SEQ ID NOS: 21  
 24 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 26 <210> SEQ ID NO: 1  
 27 <211> LENGTH: 3884  
 28 <212> TYPE: DNA  
 29 <213> ORGANISM: Human  
 31 <220> FEATURE:  
 32 <221> NAME/KEY: CDS  
 33 <222> LOCATION: (22)...(3522)  
 35 <400> SEQUENCE: 1

ENTERED

|    |   |   |     |    |
|----|---|---|-----|----|
| 36 | caggtcagaa accgatcagg c   | atg gaa ctc ccc ttc gtc act cac ctg ttc | 51  |    |
| 37 |   | Met Glu Leu Pro Phe Val Thr His Leu Phe |     |    |
| 38 | 1   | 5                                       | 10  |    |
| 40 | ttg ccc ctg gtg ttc ctg aca ggt ctc tgc tcc ccc ttt aac ctg gat |   | 99  |    |
| 41 | Leu Pro Leu Val Phe Leu Thr Gly Leu Cys Ser Pro Phe Asn Leu Asp |   |     |    |
| 42 | 15  | 20                                      | 25  |    |
| 44 | gaa cat cac cca cgc cta ttc cca ggg cca cca gaa gct gaa ttt gga |   | 147 |    |
| 45 | Glu His His Pro Arg Leu Phe Pro Gly Pro Pro Glu Ala Glu Phe Gly |   |     |    |
| 46 | 30  | 35                                      | 40  |    |
| 48 | tac agt gtc tta caa cat gtt ggg ggt gga cag cga tgg atg ctg gtg |   | 195 |    |
| 49 | Tyr Ser Val Leu Gln His Val Gly Gly Gln Arg Trp Met Leu Val     |   |     |    |
| 50 | 45  | 50                                      | 55  |    |
| 52 | ggc gcc ccc tgg gat ggg cct tca ggc gac cgg agg ggg gac gtt tat |   | 243 |    |
| 53 | Gly Ala Pro Trp Asp Gly Pro Ser Gly Asp Arg Arg Gly Asp Val Tyr |   |     |    |
| 54 | 60  | 65                                      | 70  |    |
| 56 | cgc tgc cct gta ggg ggg gcc cac aat gcc cca tgt gcc aag ggc cac |   | 291 |    |
| 57 | Arg Cys Pro Val Gly Gly Ala His Asn Ala Pro Cys Ala Lys Gly His |   |     |    |
| 58 | 75  | 80                                      | 85  | 90 |
| 60 | tta ggt gac tac caa ctg gga aat tca tct cat cct gct gtg aat atg |   | 339 |    |
| 61 | Leu Gly Asp Tyr Gln Leu Gly Asn Ser Ser His Pro Ala Val Asn Met |   |     |    |
| 62 | 95  | 100                                     | 105 |    |
| 64 | cac ctg ggg atg tct ctg tta gag aca gat ggt gat ggg gga ttc atg |   | 387 |    |

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|   |      |     |     |
|---|------|-----|-----|
| 65 His Leu Gly Met Ser Leu Leu Glu Thr Asp Gly Asp Gly Gly Phe Met  |      |     |     |
| 66 110  | 115  | 120 |     |
| 68 gcc tgt gcc cct ctc tgg tct cgt gct tgt ggc agc tct gtc ttc agt  |      |     |     |
| 69 Ala Cys Ala Pro Leu Trp Ser Arg Ala Cys Gly Ser Ser Val Phe Ser  |      |     |     |
| 70 125  | 130  | 135 |     |
| 72 tct ggg ata tgt gcc cgt gtg gat gct tca ttc cag cct cag gga agc  | 483  |     |     |
| 73 Ser Gly Ile Cys Ala Arg Val Asp Ala Ser Phe Gln Pro Gln Gly Ser  |      |     |     |
| 74 140  | 145  | 150 |     |
| 76 ctg gca ccc act gcc caa cgc tgc cca aca tac atg gat gtt gtc att  | 531  |     |     |
| 77 Leu Ala Pro Thr Ala Gln Arg Cys Pro Thr Tyr Met Asp Val Val Ile  |      |     |     |
| 78 155  | 160  | 165 | 170 |
| 80 gtc ttg gat ggc tcc aac agc atc tac ccc tgg tct gaa gtt cag acc  | 579  |     |     |
| 81 Val Leu Asp Gly Ser Asn Ser Ile Tyr Pro Trp Ser Glu Val Gln Thr  |      |     |     |
| 82 175  | 180  | 185 |     |
| 84 ttc cta cga aga ctg gta ggg aaa ctg ttt att gac cca gaa cag ata  | 627  |     |     |
| 85 Phe Leu Arg Arg Leu Val Gly Lys Leu Phe Ile Asp Pro Glu Gln Ile  |      |     |     |
| 86 190  | 195  | 200 |     |
| 88 cag gtg gga ctg gta cag tat ggg gag agc cct gta cat gag tgg tcc  | 675  |     |     |
| 89 Gln Val Gly Leu Val Gln Tyr Gly Glu Ser Pro Val His Glu Trp Ser  |      |     |     |
| 90 205  | 210  | 215 |     |
| 92 ctg gga gat ttc cga acg aag gaa gaa gtg gtg aga gca gca aag aac  | 723  |     |     |
| 93 Leu Gly Asp Phe Arg Thr Lys Glu Glu Val Val Arg Ala Ala Lys Asn  |      |     |     |
| 94 220  | 225  | 230 |     |
| 96 ctc agt cgg cgg gag gga cga gaa aca aag act gcc caa gca ata atg  | 771  |     |     |
| 97 Leu Ser Arg Arg Glu Gly Arg Glu Thr Lys Thr Ala Gln Ala Ile Met  |      |     |     |
| 98 235  | 240  | 245 | 250 |
| 100 gtg gcc tgc aca gaa ggg ttc agt cag tcc cat ggg ggc cga ccc gag | 819  |     |     |
| 101 Val Ala Cys Thr Glu Gly Phe Ser Gln Ser His Gly Arg Pro Glu     |      |     |     |
| 102 255   | 260  | 265 |     |
| 104 gct gcc agg cta ctg gtg gtt gtc act gat gga gag tcc cat gat gga | 867  |     |     |
| 105 Ala Ala Arg Leu Leu Val Val Val Thr Asp Gly Glu Ser His Asp Gly |      |     |     |
| 106 270   | 275  | 280 |     |
| 108 gag gag ctt cct gca gca cta aag gcc tgt gag gct gga aga gtg aca | 915  |     |     |
| 109 Glu Glu Leu Pro Ala Ala Leu Lys Ala Cys Glu Ala Gly Arg Val Thr |      |     |     |
| 110 285   | 290  | 295 |     |
| 112 cgc tat ggg att gca gtc ctt ggt cac tac ctc cgg cgg cag cga gat | 963  |     |     |
| 113 Arg Tyr Gly Ile Ala Val Leu Gly His Tyr Leu Arg Arg Gln Arg Asp |      |     |     |
| 114 300   | 305  | 310 |     |
| 116 ccc agc tct ttc ctg aga gaa att aga act att gcc agt gat cca gat | 1011 |     |     |
| 117 Pro Ser Ser Phe Leu Arg Glu Ile Arg Thr Ile Ala Ser Asp Pro Asp |      |     |     |
| 118 315   | 320  | 325 | 330 |
| 120 gag cga ttc ttc aat gtc aca gat gag gct gct ctg act gac att     | 1059 |     |     |
| 121 Glu Arg Phe Phe Asn Val Thr Asp Glu Ala Ala Leu Thr Asp Ile     |      |     |     |
| 122 335   | 340  | 345 |     |
| 124 gtg gat gca cta gga gat cgg att ttt ggc ctt gaa ggg tcc cat gca | 1107 |     |     |
| 125 Val Asp Ala Leu Gly Asp Arg Ile Phe Gly Leu Glu Gly Ser His Ala |      |     |     |
| 126 350   | 355  | 360 |     |
| 128 gaa aac gaa agc tcc ttt ggg ctg gaa atg tct cag att ggt ttc tcc | 1155 |     |     |
| 129 Glu Asn Glu Ser Ser Phe Gly Leu Glu Met Ser Gln Ile Gly Phe Ser |      |     |     |

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|     |   |     |     |      |
|-----|---|-----|-----|------|
| 130 | 365   | 370 | 375 |      |
| 132 | act cat cgg cta aag gat ggg att ctt ttt ggg atg gtg ggg gcc tat |     |     | 1203 |
| 133 | Thr His Arg Leu Lys Asp Gly Ile Leu Phe Gly Met Val Gly Ala Tyr |     |     |      |
| 134 | 380   | 385 | 390 |      |
| 136 | gac tgg gga ggc tct gtg cta tgg ctt gaa gga ggc cac cgc ctt ttc |     |     | 1251 |
| 137 | Asp Trp Gly Gly Ser Val Leu Trp Leu Glu Gly Gly His Arg Leu Phe |     |     |      |
| 138 | 395   | 400 | 405 | 410  |
| 140 | ccc cca cga atg gca ctg gaa gac gag ttc ccc cct gca ctg cag aac |     |     | 1299 |
| 141 | Pro Pro Arg Met Ala Leu Glu Asp Glu Phe Pro Pro Ala Leu Gln Asn |     |     |      |
| 142 | 415   | 420 | 425 |      |
| 144 | cat gca gcc tac ctg ggt tac tct gtt tct tcc atg ctt ttg cgg ggt |     |     | 1347 |
| 145 | His Ala Ala Tyr Leu Gly Tyr Ser Val Ser Ser Met Leu Leu Arg Gly |     |     |      |
| 146 | 430   | 435 | 440 |      |
| 148 | gga cgc cgc ctg ttt ctc tct ggg gct cct cga ttt aga cat cga gga |     |     | 1395 |
| 149 | Gly Arg Arg Leu Phe Leu Ser Gly Ala Pro Arg Phe Arg His Arg Gly |     |     |      |
| 150 | 445   | 450 | 455 |      |
| 152 | aaa gtc atc gcc ttc cag ctt aag aaa gat ggg gct gtg agg gtt gcc |     |     | 1443 |
| 153 | Lys Val Ile Ala Phe Gln Leu Lys Lys Asp Gly Ala Val Arg Val Ala |     |     |      |
| 154 | 460   | 465 | 470 |      |
| 156 | cag agc ctc cag ggg gag cag att ggt tca tac ttt ggc agt gag ctc |     |     | 1491 |
| 157 | Gln Ser Leu Gln Gly Glu Gln Ile Gly Ser Tyr Phe Gly Ser Glu Leu |     |     |      |
| 158 | 475   | 480 | 485 | 490  |
| 160 | tgc cca ttg gat aca gat agg gat gga aca act gat gtc tta ctt gtg |     |     | 1539 |
| 161 | Cys Pro Leu Asp Thr Asp Arg Asp Gly Thr Thr Asp Val Leu Leu Val |     |     |      |
| 162 | 495   | 500 | 505 |      |
| 164 | gct gcc ccc atg ttc ctg gga ccc cag aac aag gaa aca gga cgt gtt |     |     | 1587 |
| 165 | Ala Ala Pro Met Phe Leu Gly Pro Gln Asn Lys Glu Thr Gly Arg Val |     |     |      |
| 166 | 510   | 515 | 520 |      |
| 168 | tat gtg tat ctg gta ggc cag cag tcc ttg ctg acc ctc caa gga aca |     |     | 1635 |
| 169 | Tyr Val Tyr Leu Val Gly Gln Gln Ser Leu Leu Thr Leu Gln Gly Thr |     |     |      |
| 170 | 525   | 530 | 535 |      |
| 172 | ctt cag cca gaa ccc ccc cag gat gct cgg ttt ggc ttt gcc atg gga |     |     | 1683 |
| 173 | Leu Gln Pro Glu Pro Pro Gln Asp Ala Arg Phe Gly Phe Ala Met Gly |     |     |      |
| 174 | 540   | 545 | 550 |      |
| 176 | gct ctt cct gat ctg aac caa gat ggt ttt gct gat gtg gct gtg ggg |     |     | 1731 |
| 177 | Ala Leu Pro Asp Leu Asn Gln Asp Gly Phe Ala Asp Val Ala Val Gly |     |     |      |
| 178 | 555   | 560 | 565 | 570  |
| 180 | gcg cct ctg gaa gat ggg cac cag gga gca ctg tac ctg tac cat gga |     |     | 1779 |
| 181 | Ala Pro Leu Glu Asp Gly His Gln Gly Ala Leu Tyr Leu Tyr His Gly |     |     |      |
| 182 | 575   | 580 | 585 |      |
| 184 | acc cag agt gga gtc agg ccc cat cct gcc cag agg att gct gct gcc |     |     | 1827 |
| 185 | Thr Gln Ser Gly Val Arg Pro His Pro Ala Gln Arg Ile Ala Ala Ala |     |     |      |
| 186 | 590   | 595 | 600 |      |
| 188 | tcc atg cca cat gcc ctc agc tac ttt ggc cga agt gtg gat ggt cgg |     |     | 1875 |
| 189 | Ser Met Pro His Ala Leu Ser Tyr Phe Gly Arg Ser Val Asp Gly Arg |     |     |      |
| 190 | 605   | 610 | 615 |      |
| 192 | cta gat ctg gat gga gat gat ctg gtc gat gtg gct gtg ggt gcc cag |     |     | 1923 |
| 193 | Leu Asp Leu Asp Gly Asp Asp Leu Val Asp Val Ala Val Gly Ala Gln |     |     |      |
| 194 | 620   | 625 | 630 |      |

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|   |   |      |
|---|---|------|
| 196 ggg gca gcc atc ctg ctc agc tcc cgg ccc att gtc cat ctg acc cca | 197 Gly Ala Ala Ile Leu Leu Ser Ser Arg Pro Ile Val His Leu Thr Pro | 1971 |
| 198 635 640 645 650   |   |      |
| 200 tca ctg gag gtg acc cca cag gcc atc agt gtg gtt cag agg gac tgt | 200 Ser Leu Glu Val Thr Pro Gln Ala Ile Ser Val Val Gln Arg Asp Cys | 2019 |
| 201 655 660 665   |   |      |
| 204 agg cgg cga ggc caa gaa gca gtc tgt ctg act gca gcc ctt tgc ttc | 204 Arg Arg Arg Gly Gln Glu Ala Val Cys Leu Thr Ala Ala Leu Cys Phe | 2067 |
| 205 670 675 680   |   |      |
| 208 caa gtg acc tcc cgt act cct ggt cgc tgg gat cac caa ttc tac atg | 208 Gln Val Thr Ser Arg Thr Pro Gly Arg Trp Asp His Gln Phe Tyr Met | 2115 |
| 209 685 690 695   |   |      |
| 212 agg ttc acc gca tca ctg gat gaa tgg act gct ggg gca cgt gca gca | 212 Arg Phe Thr Ala Ser Leu Asp Glu Trp Thr Ala Gly Ala Arg Ala Ala | 2163 |
| 213 700 705 710   |   |      |
| 216 ttt gat ggc tct ggc cag agg ttg tcc cct cgg agg ctc cgg ctc agt | 216 Phe Asp Gly Ser Gly Gln Arg Leu Ser Pro Arg Arg Leu Arg Leu Ser | 2211 |
| 217 715 720 725 730   |   |      |
| 220 gtg ggg aat gtc act tgt gag cag cta cac ttc cat gtg ctg gat aca | 220 Val Gly Asn Val Thr Cys Glu Gln Leu His Phe His Val Leu Asp Thr | 2259 |
| 221 735 740 745   |   |      |
| 224 tca gat tac ctc cgg cca gtg gcc ttg act gtg acc ttt gcc ttg gac | 224 Ser Asp Tyr Leu Arg Pro Val Ala Leu Thr Val Thr Phe Ala Leu Asp | 2307 |
| 225 750 755 760   |   |      |
| 228 aat act aca aag cca ggg cct gtg ctg aat gag ggc tca ccc acc tct | 228 Asn Thr Thr Lys Pro Gly Pro Val Leu Asn Glu Gly Ser Pro Thr Ser | 2355 |
| 229 765 770 775   |   |      |
| 232 ata caa aag ctg gtc ccc ttc tca aag gat tgt ggc cct gac aat gaa | 232 Ile Gln Lys Leu Val Pro Phe Ser Lys Asp Cys Gly Pro Asp Asn Glu | 2403 |
| 233 780 785 790   |   |      |
| 236 tgt gtc aca gac ctg gtg ctt caa gtg aat atg gac atc aga ggc tcc | 236 Cys Val Thr Asp Leu Val Leu Gln Val Asn Met Asp Ile Arg Gly Ser | 2451 |
| 237 795 800 805 810   |   |      |
| 240 agg aag gcc cca ttt gtg gtt cga ggt ggc cgg cgg aaa gtg ctg gta | 240 Arg Lys Ala Pro Phe Val Val Arg Gly Gly Arg Arg Lys Val Leu Val | 2499 |
| 241 815 820 825   |   |      |
| 244 tct aca act ctg gag aac aga aag gaa aat gct tac aat acg agc ctg | 244 Ser Thr Thr Leu Glu Asn Arg Lys Glu Asn Ala Tyr Asn Thr Ser Leu | 2547 |
| 245 830 835 840   |   |      |
| 248 agt atc atc ttc tct aga aac ctc cac ctg gcc agt ctc act cct cag | 248 Ser Ile Ile Phe Ser Arg Asn Leu His Leu Ala Ser Leu Thr Pro Gln | 2595 |
| 249 845 850 855   |   |      |
| 252 aga gag agc cca ata aag gtg gaa tgt gcc cct tct gct cat gcc     | 252 Arg Glu Ser Pro Ile Lys Val Glu Cys Ala Ala Pro Ser Ala His Ala | 2643 |
| 253 860 865 870   |   |      |
| 256 cgg ctc tgc agt gtg ggg cat cct gtc ttc cag act gga gcc aag gtg | 256 Arg Leu Cys Ser Val Gly His Pro Val Phe Gln Thr Gly Ala Lys Val | 2691 |
| 257 875 880 885 890   |   |      |
| 260 acc ttt ctg cta gag ttt gag ttc agc tgc tcc tct ctc ctg agc cag | 260 acc ttt ctg cta gag ttt gag ttc agc tgc tcc tct ctc ctg agc cag | 2739 |

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|     |   |      |      |      |
|-----|---|------|------|------|
| 261 | Thr Phe Leu Leu Glu Phe Glu Ser Cys Ser Ser Leu Leu Ser Gln     |      |      |      |
| 262 | 895   | 900  | 905  |      |
| 264 | gtc ttt ggg aag ctg act gcc agc agt gac agc ctg gag aga aat ggc | 2787 |      |      |
| 265 | Val Phe Gly Lys Leu Thr Ala Ser Ser Asp Ser Leu Glu Arg Asn Gly |      |      |      |
| 266 | 910   | 915  | 920  |      |
| 268 | acc ctt caa gaa aac aca gcc cag acc tca gcc tac atc caa tat gag | 2835 |      |      |
| 269 | Thr Leu Gln Glu Asn Thr Ala Gln Thr Ser Ala Tyr Ile Gln Tyr Glu |      |      |      |
| 270 | 925   | 930  | 935  |      |
| 272 | ccc cac ctc ctg ttc tct agt gag tct acc ctg cac cgc tat gag gtt | 2883 |      |      |
| 273 | Pro His Leu Leu Phe Ser Ser Glu Ser Thr Leu His Arg Tyr Glu Val |      |      |      |
| 274 | 940   | 945  | 950  |      |
| 276 | cac cca tat ggg acc ctc cca gtg ggt cct ggc cca gaa ttc aaa acc | 2931 |      |      |
| 277 | His Pro Tyr Gly Thr Leu Pro Val Gly Pro Gly Pro Glu Phe Lys Thr |      |      |      |
| 278 | 955   | 960  | 965  | 970  |
| 280 | act ctc agg gtt cag aac cta ggc tgc tat gtg gtc agt ggc ctc atc | 2979 |      |      |
| 281 | Thr Leu Arg Val Gln Asn Leu Gly Cys Tyr Val Val Ser Gly Leu Ile |      |      |      |
| 282 | 975   | 980  | 985  |      |
| 284 | atc tca gcc ctc ctt cca gct gtg gcc cat ggg ggc aat tac ttc cta | 3027 |      |      |
| 285 | Ile Ser Ala Leu Leu Pro Ala Val Ala His Gly Gly Asn Tyr Phe Leu |      |      |      |
| 286 | 990   | 995  | 1000 |      |
| 288 | tca ctg tct caa gtc atc act aac aat gca agc tgc ata gtg cag aac | 3075 |      |      |
| 289 | Ser Leu Ser Gln Val Ile Thr Asn Asn Ala Ser Cys Ile Val Gln Asn |      |      |      |
| 290 | 1005  | 1010 | 1015 |      |
| 292 | ctg act gaa ccc cca ggc cca cct gtg cat cca gag gag ctt caa cac | 3123 |      |      |
| 293 | Leu Thr Glu Pro Pro Gly Pro Pro Val His Pro Glu Glu Leu Gln His |      |      |      |
| 294 | 1020  | 1025 | 1030 |      |
| 296 | aca aac aga ctg aat ggg agc aat act cag tgt cag gtg gtg agg tgc | 3171 |      |      |
| 297 | Thr Asn Arg Leu Asn Gly Ser Asn Thr Gln Cys Gln Val Val Arg Cys |      |      |      |
| 298 | 1035  | 1040 | 1045 | 1050 |
| 300 | cac ctt ggg cag ctg gca aag ggg act gag gtc tct gtt gga cta ttg | 3219 |      |      |
| 301 | His Leu Gly Gln Leu Ala Lys Gly Thr Glu Val Ser Val Gly Leu Leu |      |      |      |
| 302 | 1055  | 1060 | 1065 |      |
| 304 | agg ctg gtt cac aat gaa ttt ttc cga aga gcc aag ttc aag tcc ctg | 3267 |      |      |
| 305 | Arg Leu Val His Asn Glu Phe Phe Arg Arg Ala Lys Phe Lys Ser Leu |      |      |      |
| 306 | 1070  | 1075 | 1080 |      |
| 308 | acg gtg gtc agc acc ttt gag ctg gga acc gaa gag ggc agt gtc cta | 3315 |      |      |
| 309 | Thr Val Val Ser Thr Phe Glu Leu Gly Thr Glu Glu Gly Ser Val Leu |      |      |      |
| 310 | 1085  | 1090 | 1095 |      |
| 312 | cag ctg act gaa gcc tcc cgt tgg agt gag agc ctc ttg gag gtg gtt | 3363 |      |      |
| 313 | Gln Leu Thr Glu Ala Ser Arg Trp Ser Glu Ser Leu Leu Glu Val Val |      |      |      |
| 314 | 1100  | 1105 | 1110 |      |
| 316 | cag acc cgg cct atc ctc atc tcc ctg tgg atc ctc ata ggc agt gtc | 3411 |      |      |
| 317 | Gln Thr Arg Pro Ile Leu Ile Ser Leu Trp Ile Leu Ile Gly Ser Val |      |      |      |
| 318 | 1115  | 1120 | 1125 | 1130 |
| 320 | ctg gga ggg ttg ctc ctg ctt gct ctc ctt gtc ttc tgc ctg tgg aag | 3459 |      |      |
| 321 | Leu Gly Gly Leu Leu Leu Ala Leu Leu Val Phe Cys Leu Trp Lys     |      |      |      |
| 322 | 1135  | 1140 | 1145 |      |
| 324 | ctt ggc ttc ttt gcc cat aag aaa atc cct gag gaa gaa aaa aga gaa | 3507 |      |      |
| 325 | Leu Gly Phe Phe Ala His Lys Lys Ile Pro Glu Glu Lys Arg Glu     |      |      |      |

→ Use of n and/or Xaa has been detected in the Sequence Listing.  
Review the Sequence Listing to insure a corresponding  
explanation is presented in the <220> to <223> fields of  
each sequence using n or Xaa.

VERIFICATION SUMMARY  
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L:1021 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:1049 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:1101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15